

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

### LISTING OF CLAIMS

Please cancel claims 165 and 193.

Please add claims 198-211 as indicated below.

140. (Currently Amended) A mobile digital display means, comprising:

- a) a casing having at least one display unit comprising a touch screen,
- aa) the casing having at least a first part and a second part, said first and second parts being hinged together by a hinge means such that the casing is adapted to be folded open and shut; and
- ab) the touch screen being adapted to provide at least one virtual operating element;
- b) at least one manipulation region for use by a user;
- ba) said manipulation region being designed in the side zone of the casing such that the user can execute operations with the fingers of a hand holding the casing;
- bb) the manipulation region providing at least one multifunction operating element adapted to be actuated by at least one finger of the hand holding the casing; and
- bc) **wherein** an operating function can be triggered by the at least one virtual operating element by action of the thumb of the hand without this necessitating substantial shifting of the wrist of the hand relative to the casing (**G**) and by action of a finger of the hand on the multifunction operating element.

141. (Previously Presented) Mobile digital display means according to claim 140, wherein said hinge means comprises a light emitting diode for indicating the charging state of a battery or an accumulator.

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

142. (Previously Presented) Mobile digital display means according to claim 140, wherein the hinge means comprises a compartment.

143. (Previously Presented) Mobile digital display means according to claim 142, wherein the compartment comprises at least one electronic component.

144. (Previously Presented) Mobile digital display means according to claim 140, wherein the compartment comprises at least one connector means.

145. (Previously Presented) Mobile digital display means according to claim 144, wherein the connector means is adapted to be coupled with at least one external device.

146. (Currently Amended) Mobile digital display means according to claim 140, wherein the second part is adapted to be removable from the ~~main~~ first part.

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147. (Currently Amended) Mobile digital display means according to claim 140, ~~wherein the further comprising an~~ inwardly curved region substantially extends extending from a first edge zone to an opposite second edge zone of the casing.

148. (Currently Amended) Mobile digital display means according to claim ~~140~~ 147, wherein the inwardly curved region is substantially in parallel to the gripping handle.

149. (Currently Amended) Mobile digital display means according to claim ~~140~~ 147, wherein the inwardly curved region is substantially in parallel to ~~the an~~ accumulator.

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

150. (Currently Amended) Mobile digital display means according to claim 140, ~~where said further including an~~ at least one outer edge designed as a gripping handle comprises at least one battery or accumulator.

151. (Currently Amended) Mobile digital display means according to claim 140, ~~the screen being a wherein the~~ touch screen is operable by at least one finger of a hand or with a screen pen.

152. Cancelled

153. (Currently Amended) Mobile digital display means according to claim 140, ~~where said further including an~~ at least one outer edge designed as a gripping handle is substantially of cylindrical shape.

154. (Currently Amended) Mobile digital display means according to claim 140, ~~where said further including an~~ at least one outer edge designed as a gripping handle comprises comprising multiple operating switches, the switches being adapted to be used as directional keys and/or function keys which can be operated individually or in combination.

*cont*

155. (Currently Amended) Mobile digital display means according to claim 140, ~~where 154, further including~~ a second outer edge of the display located opposite to ~~the~~ said at least one outer edge, wherein said at least one outer edge has a larger thickness than the display unit than an in the inwardly curved region.

156. (Currently Amended) Mobile digital display means according to claim 140, ~~where 155 wherein~~ at least one of the left first and right second outer edges is rounded.

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

157. Cancelled

158. (Previously Presented) Mobile digital display means according to claim 140, further comprising an interface unit for inputting and outputting information and for supplying energy.

159. (Previously Presented) Mobile digital display means according to claim 158, further comprising a removable supply unit, the casing being insertable into the supply unit, the supply unit adapted to be connected with the interface unit.

160. (Previously Presented) Mobile digital display means according to claim 159, the supply unit comprising a connecting cable for inputting and/or outputting information.

161. (Previously Presented) Mobile digital display means according to claim 158, the connecting cable being adapted to connect the supply unit to an element taken from a set comprising a computer, a modem, and a power supply.

162. (Previously Presented) Mobile digital display means according to claim 140,

a) further comprising a control unit;  
b) the control unit having means for receiving, storing, processing and reproducing information contains a control means comprising at least one RAM, a ROM and/or an EPROM, at least one processor, at least one driver circuit and a bus line.

163. (Previously Presented) Mobile digital display means according to claim 140, said control unit having means for receiving, storing, processing and

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

reproducing in formation, the information may be present in the form of text, image, graphical, audio and/or video information.

164. (Currently Amended) Mobile digital display means according to claim 140,

- a) ~~further comprising at least one manipulation region for use by a user,~~
- b) ~~said manipulation region being located at the least one outer edge of the display unit such that the user can execute operations with the fingers of a hand holding the casing;~~
- c) ~~the manipulation region has provided therein at least one operating element adapted to be actuated, and~~
- d) ~~the at least one operating element triggering one or more functions out of the set comprising:~~

wherein said operating functions comprise at least one of the following functions:

- leafing-through functions,
- scrolling functions,
- providing functions for selection menus,
- selection functions within selection menus,
- effecting a change in operating state,
- setting document information,
- loading document information, and
- switching over to a different mode of operation.

165. Cancelled

166. Cancelled

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

167. (Previously Presented) Mobile digital display means according to claim 140, wherein the display unit is located on the first part, the second part comprising a keyboard.

168. (Previously Presented) A digital book, comprising:

- a) a casing having a display unit with at least one touch screen, the touch screen being adapted to provide at least one virtual operating element;
- b) at least one manipulation region for use by a user;
- ba) said manipulation region being designed in the side zone of the casing such that the user can execute operations with the fingers of a hand holding the casing;
- bb) the manipulation region providing at least one multifunction operating element adapted to be actuated by at least one finger of the hand holding the casing; and
- bc) where an operating function can be triggered by the at least one virtual operating element by action of the thumb of the hand without this necessitating substantial shifting of the wrist of the hand relative to the casing and by action of a finger of the hand on the multifunction operating element.

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169. (Currently Amended) Digital book according to claim 168, wherein the further including an inwardly curved region substantially extends extending from a first edge zone to an opposite second edge zone of the casing.

170. (Currently Amended) Digital book according to claim 168 169, wherein the inwardly curved region is substantially in parallel to the gripping handle.

171. (Currently Amended) Digital book according to claim 168 170, wherein the inwardly curved region is substantially in parallel to the accumulator.

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

172. (Currently Amended) Digital book according to claim 168, ~~where said further including an~~ at least one outer edge designed as a gripping handle comprises at least one battery or accumulator.

173. (Previously Presented) Digital book according to claim 168, ~~the screen being a wherein the~~ touch screen ~~is~~ operable by at least one finger of a hand or with a screen pen.

174. Cancelled

175. (Currently Amended) Digital book according to claim 168, ~~where said further including an~~ at least one outer edge designed as a gripping handle is substantially of cylindrical shape.

176. (Currently Amended) Digital book according to claim 168, ~~where said further including an~~ at least one outer edge designed as a gripping handle comprises multiple operating switches, the switches being adapted to be used as directional keys and/or function keys which can be operated individually or in combination.

177. (Currently Amended) Digital book according to claim ~~168, where 176,~~ ~~further including~~ a second outer edge of the display located opposite to the said at least one outer edge has a larger thickness than the display unit in the inwardly curved region.

178. (Currently Amended) Digital book according to claim ~~168 177~~, where at least one of the ~~left first~~ and ~~right second~~ outer edges is rounded.

179. Cancelled

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

180. (Previously Presented) Digital book according to claim 168, further comprising an interface unit for inputting and outputting information and for supplying energy.

181. (Previously Presented) Digital book according to claim 168, further comprising a removable supply unit, the casing being insertable into the supply unit, the supply unit adapted to be connected with the interface unit.

182. (Previously Presented) Digital book according to claim 181, the supply unit comprising a connecting cable for inputting and/or outputting information.

183. (Previously Presented) Digital book according to claim 182, the connecting cable being adapted to connect the supply unit to an element taken from a set comprising a computer, a modem, and a power supply.

*Konx*  
184. (Previously Presented) Digital book according to claim 168,  
a) further comprising a control unit;  
b) the control unit having means for receiving, storing, processing and reproducing information contains a control means comprising at least one RAM, a ROM and/or an EPROM, at least one processor, at least one driver circuit and a bus line.

185. (Previously Presented) Digital book according to claim 184, said control unit having means for receiving, storing, processing and reproducing information, the information may be present in the form of text, image, graphical, audio and/or video information.

186. (Currently Amended) Digital book according to claim 168, wherein  
**said operating functions comprise one or more of the following:**

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

- a) ~~further comprising at least one manipulation region for use by a user,~~
- b) ~~said manipulation region being located at the least one outer edge of the display unit such that the user can execute operations with the fingers of a hand holding the casing;~~
- c) ~~the manipulation region has provided therein at least one operating element adapted to be actuated, and~~
- d) ~~the at least one operating element triggering one or more functions out of the set comprising:~~
  - leafing-through functions,
  - scrolling functions,
  - providing functions for selection menus,
  - selection functions within selection menus,
  - effecting a change in operating state,
  - setting document information,
  - loading document information, and
  - switching over to a different mode of operation.

*Kempton*  
187. (Previously Presented) Digital book according to claim 168, wherein the casing has at least a first part and a second part, said first and second parts being hinged together by a hinge means such that the casing is adapted to be folded open and shut.

188. (Previously Presented) Digital book according to claim 187, wherein the hinge means comprises a compartment.

189. (Previously Presented) Digital book according to claim 188, wherein the compartment comprises at least one electronic component.

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

190. (Previously Presented) Digital book according to claim 188, wherein the compartment comprises at least one connector means.

191. (Previously Presented) Digital book according to claim 190, wherein the connector means is adapted to be coupled with at least one external device.

192. (Previously Presented) Digital book according to claim 187, wherein the second part is adapted to be removable from the main part.

193. Cancelled

194. Cancelled

195. (Previously Presented) Digital book according to claim 168, further comprising coupling means for electric coupling of a data carrier unit, said coupling means, after coupling of the data carrier unit, automatically reading out data from the data carrier unit, and the data carrier unit comprising at least a memory means with software stored therein for expanding the range of capabilities with regard to the information to be displayed, the information being input via the data carrier unit.

*Ex-Cont*

196. (Previously Presented) Digital book according to claim 168, further comprising coupling means for electric coupling of a data carrier unit, the data carrier unit comprising a hardware extension.

197. (Previously Presented) Mobile digital display means according to claim 168, wherein the display unit is located on the first part, the second part comprising a keyboard.

Appl. No. 09/508,794  
Am dt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

198. (New) A display apparatus for displaying information comprising:  
a casing; and

at least one display unit comprising a central display area and a marginal display area including a plurality of virtual operating elements each triggering at least one operation function when actuated by touch, said at least one display unit disposed within said casing;

wherein said plurality of virtual operating elements may be removed from view as said display apparatus displays information.

199. (New) The display apparatus as set forth in claim 198, wherein said casing includes a first portion rotatably connected to a second portion.

200. (New) The display apparatus as set forth in claim 198 further including a means allowing said casing to be configured in both an open position and a closed position.

201. (New) The display apparatus as set forth in claim 198, further including at least one manipulation region disposed in said casing.

202. (New) The display apparatus as set forth in claim 201 wherein said at least one manipulation region faces opposite said plurality of virtual operating elements.

203. (New) The display apparatus as set forth in claim 201 wherein said manipulation region may be actuated by at least one finger of a hand of a user and said plurality of virtual operating elements may be actuated with a thumb of said hand without movement of a remainder of said hand.

204. (New) The display apparatus as set forth in claim 203 wherein said remainder of said hand grips said casing.

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

205. (New) The display apparatus as set forth in claim 198 wherein said operation functions includes one or more functions out of the set comprising:

- leafing-through functions,
- scrolling functions,
- providing functions for selection menus,
- selection functions within selection menus,
- effecting a change in operating state,
- setting document information,
- loading document information, and
- switching over to a different mode of operation.

206. (New) The display apparatus as set forth in claim 199 wherein said first portion includes said display device and said second portion includes an interface for inputting information.

207. (New) The display apparatus as set forth in claim 206 wherein said interface comprises a keyboard.

208. (New) A mobile digital display means for displaying information comprising:

- a.) a housing including at least one display area for displaying the information and further including at least one navigation input means for navigating through the information, the navigation input means being distinct from the at least one display area;
- b.) the housing having at least two housing parts hinged together by a hinge means;
- c.) the at least one navigation input means being located on a side of the housing opposite the display area;

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

d.) the at least one navigation input means being positioned to allow a user to manipulate the information content displayed on the display area by a hand of the user gripping an edge of the housing that activates the at least one navigation input means using an index finger, a middle finger and/or a ring finger of the gripping hand.

209. (New) A mobile digital display means for reproducing information comprising:

a.) a housing having at least one display area for displaying the information content and having at least one navigation input means for navigating the information, the navigation input means being distinct from the at least one display area;

b.) the at least one display area having a sensitive manipulation area for manipulating the information content by means of a pen and/or a finger;

c.) the at least one navigation input means being located on a side of the housing opposite to the display area when the display area is orientated towards a user; and

d.) the at least one navigation input means being located in such a way that, for manipulating the information content displayed on the display area, a hand of the user gripping an edge of the housing can operate the at least one navigation input means using an index finger, a middle finger and/or a ring finger of the gripping hand.

210. (New) A mobile digital display means for reproducing information comprising:

a.) a housing having at least one display area for displaying the information content and having at least one navigation input means for navigating the information, the navigation input means being separate from the at least one display area;

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

b.) the at least one navigation input means being located on a side of a gripping edge region of the housing, the gripping edge region being adapted for gripping by a hand of a user, the side being oriented towards the carpus of the hand of the user;

c.) the at least one navigation input means being located on a side of the housing opposed to the display area when the display area is oriented towards a user; and

d.) the at least one navigation input means being located in such a way that, for manipulating the information content displayed on the display area, the hand of the user gripping an edge of the housing can operate the at least one navigation input means using an index finger, a middle finger and/or a ring finger of the gripping hand.

*ECP*  
211. (New) The mobile digital display means as set forth in claim 209 wherein

a.) the at least one navigation input means being adapted for triggering of at least one navigation function,

b.) the at least one navigation function being selected from a group of functions comprising:

- leafing-through functions;
  - scrolling functions for navigation;
  - an addressing function for addressing of a certain content, the content being displayed on the at least one display area using a cursor;
  - a marker function for marking certain content, the content being displayed on the at least one display area;
  - a function for making available at least one selection menu on the at least one display area;
  - a selection function for performing a selection within a selection menu previously made available on the at least one display area;
- and

Appl. No. 09/508,794  
Amdt. dated June 4, 2004  
Reply to Office Action of December 4, 2003

- a trigger function for triggering selected functions within selection menus previously made available.